AMENDMENT TO THE CLAIMS

1. (CURRENTLY AMENDED) A method in a channel adapter configured for communications with a server network system, the method comprising:

first storing <u>by the channel adapter,</u> in a table configured for storing multiple entries, an entry having a work queue entry field that specifies a transmitted work queue entry <u>in response to completed transmission by the channel adapter into the server network system of a corresponding transmit packet associated with the transmitted work queue entry</u>, the entry including at least first and second link fields each configured for referencing another entry in the table, the first storing ~~step~~ <u>of the entry</u> including storing in the first link field a first entry identifier for one of the transmitted work queue entry or a subsequently transmitted work queue entry <u>having a corresponding transmit packet transmitted by the channel adapter into the server network system</u> relative to the transmitted work queue entry, wherein the first entry identifiers in the respective first link fields form a first linked list specifying a transmit sequence of the transmitted work queue entries <u>having respective transmit packets transmitted by the channel adapter into the server network system</u>;

detecting <u>by the channel adapter</u> an acknowledgement <u>from the server network system</u> for at least a first of the transmitted work queue entries stored in the table; and

generating in the table<u>, by the channel adapter,</u> a second linked list specifying an acknowledgement sequence of the transmitted work queue entries by second storing, in the second link field of the entry corresponding to the first transmitted work queue entry, a second entry identifier ~~based on~~ <u>in response to</u> the detecting ~~step~~ <u>of the acknowledgement</u>, the second entry identifier specifying one of the first transmitted work queue entry or an entry having received a subsequent acknowledgement relative to the detected acknowledgement.

2. (CURRENTLY AMENDED) The method of claim 1, wherein the first storing [[step]] <u>of the entry</u> includes storing the entry in a send queue table by a free buffer manager.

3. (ORIGINAL) The method of claim 1, further comprising parsing the second linked list to determine transmitted work queue entries awaiting acknowledgement.

4. (CURRENTLY AMENDED) The method of claim 1, wherein the detecting [[step]] of the acknowledgement includes detecting the acknowledgement according to InfiniBand™ protocol.

5. (CURRENTLY AMENDED) A channel adapter comprising:

a table configured for storing entries identifying respective work queue entries having respective transmit packets been transmitted by the channel adapter into a server network system according to a service protocol requiring receipt of an acknowledgment message, each entry including:

(1) a work queue entry field configured for specifying the corresponding work queue entry having a corresponding transmit packet transmitted by the channel adapter into the server network system,

(2) a first link field configured for specifying a first entry identifier referencing one of the corresponding entry or another entry for a subsequently transmitted work queue entry having a corresponding transmit packet transmitted by the channel adapter into the server network system relative to the corresponding entry, and

(3) a second link field configured for storing a second entry identifier referencing one of the corresponding entry or another entry having received a subsequent acknowledgement;

an acknowledgement detector configured for detecting the acknowledgements from the server network system for the work queue entries; and

a table manager configured for adding the table entries based on in response to completed transmission of the respective transmit packets for the work queue entries into the server network system, the table manager configured for inserting the corresponding first entry identifier based on in response to the corresponding transmit packet of the subsequently transmitted work queue entry having been transmitted by the channel adapter into the server

network system, the table manager configured for inserting the corresponding second entry identifier ~~based on~~ in response to the entry having received the subsequent acknowledgement, the first and second link fields forming first and second linked lists identifying a transmit sequence of the transmitted work queue entries having respective transmit packets transmitted by the channel adapter into the server network system, and an acknowledgement sequence of the transmitted work queue entries, respectively;

wherein the channel adapter is implemented as an integrated circuit.

6.   (ORIGINAL) The channel adapter of claim 5, wherein the acknowledgement detector is configured for detecting the acknowledgement according to InfiniBand™ protocol.

7.   (CURRENTLY AMENDED) The ~~apparatus~~ channel adapter of claim 5, wherein the table manager is configured for parsing the second linked list to determine transmitted work queue entries awaiting acknowledgement.

8.   (NEW) The method of claim 1, wherein the channel adapter is implemented as an integrated circuit.

9.   (NEW) The method of claim 8, wherein the integrated circuit is implemented as an application-specific integrated circuit.

10.   (NEW) The channel adapter of claim 5, wherein the integrated circuit is implemented as an application-specific integrated circuit.